

Conference Abstract

# Future Challenges in Digitisation of Private Natural History Collections

Luc Willemse<sup>‡</sup>, Emily van Egmond<sup>‡</sup>, Veljo Runnel<sup>§</sup>, Hannu Saarenmaa<sup>|</sup>, Ana Casino Rubio<sup>¶</sup>, Karsten Gödderz<sup>¶</sup>, Xavier Vermeersch<sup>¶</sup>

<sup>‡</sup> Naturalis Biodiversity Center, Leiden, Netherlands

<sup>§</sup> University of Tartu, Tartu, Estonia

<sup>|</sup> University of Eastern Finland, Joensuu, Finland

<sup>¶</sup> CETAF c/o Royal Belgian Institute of Natural Sciences, Brussels, Belgium

Corresponding author: Luc Willemse ([luc.willemse@naturalis.nl](mailto:luc.willemse@naturalis.nl))

Received: 24 Jun 2019 | Published: 02 Jul 2019

Citation: Willemse L, van Egmond E, Runnel V, Saarenmaa H, Rubio A, Gödderz K, Vermeersch X (2019) Future Challenges in Digitisation of Private Natural History Collections. Biodiversity Information Science and Standards 3: e37640. <https://doi.org/10.3897/biss.3.37640>

## Abstract

Specimens held in private natural history collections form an essential, but often neglected part of the specimens held worldwide in natural history collections. When engaging in regional, national or international initiatives aimed at increasing the accessibility of biodiversity data, it is paramount to include private collections as much and as often as possible. Compared to larger collections in national history institutions, private collections present a unique set of challenges: they are numerous, anonymous, small and diverse in all aspects of collection management. In [ICEDIG](#), a design study for [DiSSCo](#) these challenges were tackled in task 2 "Inventory of content and incentives for digitisation of small and private collections" under Workpackage 2 "Inventory of current criteria for prioritization of digitization".

First, we need to understand the current state and content of private collections within Europe, to identify and tackle challenges more effectively. While some private collections will duplicate material already held in public collections, many are likely to fill more specialised or unusual niches, relevant to the particular collector(s). At present, there is little evidence about the content of private collections and this needs to be explored. In



2018, a European survey was carried out amongst private collection owners to gain more insight in the volume, scope and degree of digitisation of these collections.

Based on this [survey](#), all of the respondents' collections combined are estimated to contain between 9 and 33 million specimens. This is only the tip of the iceberg for private collections in Europe and underlines the importance of these private collections. Digitisation and sharing collection data are activities that are overall considered important among private collection owners. The survey also showed that for those who have not yet started digitising their collection, the provision of tools and information would be most valuable. These and other highlights of the survey will be presented. In addition, protocols for inventories of private collections will be discussed, as well as ways to keep these up to date.

To enhance the inclusion of private collections in Europe's digitisation efforts, we recognise that we mainly have to focus on the challenges regarding the 'how' (work-process), and the sharing of information residing in private collections (including ownership, legal issues, sensitive data). Where necessary, we will also draw attention to the 'why' (motivation) of digitisation. A communication strategy aimed at raising awareness about digitisation, offering insight in the practicalities to implement digitisation as well as providing answers to issues related to sharing information, is an essential tool. Elements of a communication strategy to further engage private collection owners will be presented, as will conclusions and recommendations.

Finally, digitisation and communication aspects related to private collection owners will need to be tested within the community. Therefore, a pilot project is currently (2018-2019) being carried out in Estonia, Finland and the Netherlands to digitise private collections in a variety of settings. Preliminary results will be presented, zooming in on different approaches to include data from private collections in the overall (research) infrastructures.

## Keywords

private collections, digitisation, challenges, data ownership, legal issues, sensitive data, communication strategy

## Presenting author

Luc Willemse

## Presented at

Biodiversity\_Next 2019